
SECTION 1

PRODUCT IDENTIFIER HD 2009 ICI COLORANT-HD RAW UMBER (L)
DATE OF PREPARATION JUNE 28, 2002
PRODUCT USE PROTECTIVE COATING

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

	INGREDIENT	WT. %:
CHEMICAL NAME	1,2-ETHANEDIOL	20-30
COMMON NAME :	ETHYLENE GLYCOL	
CAS NUMBER:	107-21-1	
CHEMICAL NAME	POLY(OXY-1,2-ETHANEDIYL, ALPHA-4-NONYLPHENYL) -	5-10
	OMEGA-HYDROXY-, BRANCHED	
COMMON NAME :	GLYCOL ETHER	
CAS NUMBER:	127087-87-0	
CHEMICAL NAME	UMBER	20-30
COMMON NAME :	RAW UMBER	
CAS NUMBER:	12713-03-0	
CHEMICAL NAME	MANGANESE OXIDE	1-5
COMMON NAME :	MANGANESE OXIDE	
CAS NUMBER:	1317-34-6	
CHEMICAL NAME	KAOLIN	5-10
COMMON NAME :	CLAY	
CAS NUMBER:	1332-58-7	
CHEMICAL NAME	CARBON BLACK	1-5

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME : CARBON BLACK
CAS NUMBER: 1333-86-4

CHEMICAL NAME C.I. PIGMENT YELLOW 42 1-5
COMMON NAME : YELLOW IRON OXIDE
CAS NUMBER: 51274-00-1

CHEMICAL NAME ARSENIC .01-.1
COMMON NAME : ARSENIC
CAS NUMBER: 7440-38-2

CHEMICAL NAME WATER 10-20
COMMON NAME : WATER
CAS NUMBER: 7732-18-5

CHEMICAL NAME LECITHINS 1-5
COMMON NAME : LECITHIN
CAS NUMBER: 8002-43-5

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF EXPOSURE
INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE

INHALATION	PROLONGED INHALATION MAY LEAD TO MUCOUS MEMBRANE IRRITATION, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, CENTRAL NERVOUS SYSTEM DEPRESSION, KIDNEY DAMAGE.
SKIN CONTACT	IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING. POSSIBLE SENSITIZATION TO SKIN.
EYE CONTACT	IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS.
INGESTION	INGESTION MAY CAUSE DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, SEVERE ABDOMINAL PAIN, APATHY, CENTRAL NERVOUS SYSTEM DEPRESSION, RESPIRATORY PROBLEMS, INTOXICATION, KIDNEY DAMAGE, PULMONARY EDEMA, LOSS OF

SECTION 3: HAZARDS IDENTIFICATION

CONSCIOUSNESS, ACUTE POISONING, RESPIRATORY FAILURE,
CARDIAC FAILURE, BRAIN DAMAGE.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
EYE, SKIN, RESPIRATORY DISORDERS
LUNG DISORDERS
ASTHMA-LIKE CONDITIONS
KIDNEY DISORDERS

SECTION 4: FIRST-AID MEASURES

INHALATION	REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY. REMOVE TO FRESH AIR IF INHALATION CAUSES EYE WATERING, HEADACHES, DIZZINESS, OR OTHER DISCOMFORT.
SKIN CONTACT	WASH THOROUGHLY WITH SOAP AND WATER. IF ANY PRODUCT REMAINS, GENTLY RUB PETROLEUM JELLY, VEGETABLE OR MINERAL/BABY OIL ONTO SKIN. REPEATED APPLICATIONS MAY BE NEEDED. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE RE-USE.
EYE CONTACT	FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.
INGESTION	IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT (SETA)	NONE	LOWER EXPLOSIVE LIMIT	NOT AVAILABLE	
		UPPER EXPLOSIVE LIMIT	15.3	(%)

SECTION 5: FIRE-FIGHTING MEASURES

FIRE EXTINGUISHING MEDIA

DRY CHEMICAL OR FOAM
WATER FOG.
CARBON DIOXIDE.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE.
MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

FIRE FIGHTING PROCEDURES

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS.
FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.
SELF-CONTAINED BREATHING APPARATUS RECOMMENDED.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS

CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN,
PHOSPHOROUS, TOXIC GASES.
MANGANESE OXIDES

SECTION 6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS.
ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. PLACE COLLECTED MATERIAL IN PROPER CONTAINER.
COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.
LARGE SPILLS - SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES.
SMALL SPILLS - USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

SECTION 7 HANDLING AND STORAGE

HANDLING AND STORAGE

STORE BELOW 100F (38C). KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP FROM FREEZING.

OTHER PRECAUTIONS USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. AVOID CONDITIONS WHICH RESULT IN FORMATION OF INHALABLE PARTICLES SUCH AS SPRAYING OR ABRADING (SANDING) PAINTED SURFACES. IF SUCH CONDITIONS CANNOT BE AVOIDED, USE APPROPRIATE RESPIRATORY PROTECTION AS DIRECTED UNDER EXPOSURE CONTROLS/PERSONAL PROTECTION.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME : ETHYLENE GLYCOL
CAS NUMBER: 107-21-1
ACGIH(STEL) : C 100 MG/M3

COMMON NAME : RAW UMBER
CAS NUMBER: 12713-03-0
ACGIH(TWA) : 10 MG/M3 OSHA(TWA) : 15 MG/M3

COMMON NAME : MANGANESE OXIDE
CAS NUMBER: 1317-34-6
ACGIH(TWA) : .2 MG/M3 OSHA(TWA) : 1 MG/M3
OSHA(STEL) : 3 MG/M3
OSHA((SKIN) : CEILING: 5 MG/M3 SUPP REC STD.: NOT AVAILABLE

COMMON NAME : CLAY
CAS NUMBER: 1332-58-7
ACGIH(TWA) : 2 MG/M3 OSHA(TWA) : 5 MG/M3

COMMON NAME : CARBON BLACK
CAS NUMBER: 1333-86-4
ACGIH(TWA) : 3.5 MG/M3 OSHA(TWA) : 3.5 MG/M3

COMMON NAME : YELLOW IRON OXIDE
CAS NUMBER: 51274-00-1

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH (TWA) : 5 MG/M3 OSHA (TWA) : 10 MG/M3

COMMON NAME : ARSENIC

CAS NUMBER: 7440-38-2

ACGIH (TWA) : 0.01 MG/M3 OSHA (TWA) : 0.01 MG/M3

RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS. DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

VENTILATION PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS.

PERSONAL PROTECTIVE EQUIPMENT

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES.
IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	1.539
BOILING RANGE:	212-500F/ -260C	WEIGHT PER GALLON:	12.81/ 15.38IMP
%VOLATILE BY VOLUME:	63.03		
PHYSICAL STATE:	LIQUID	APPEARANCE	BROWN
SOLUBILITY IN WATER:	NOT AVAILABLE	PH:	NOT AVAILABLE

SECTION 10: STABILITY AND REACTIVITY

UNDER NORMAL CONDITIONS

STABLE

SEE SECTION 5 FIRE FIGHTING MEASURES

MATERIALS TO AVOID

OXIDIZERS, ACIDS, REDUCING AGENTS, HALOGENS.

NITRATES.

STYRENE MONOMER

CONDITIONS TO AVOID

ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENT,
FREEZING, OPEN FLAME.

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

COMMON NAME : ETHYLENE GLYCOL

CAS NUMBER: 107-21-1

CARCINOGENICITY LISTED BY: NTP NO

IARC NO

OSHA NO

ACGIH NO

LD50: 4700.00 MG/KG ORL RAT

LD50: 5500.00 MG/KG ORL MOU

COMMON NAME : GLYCOL ETHER

CAS NUMBER: 127087-87-0

CARCINOGENICITY LISTED BY: NTP NO

IARC NO

OSHA NO

ACGIH NO

COMMON NAME : RAW UMBER

CAS NUMBER: 12713-03-0

CARCINOGENICITY LISTED BY: NTP NO

IARC NO

OSHA NO

ACGIH NO

COMMON NAME : MANGANESE OXIDE

CAS NUMBER: 1317-34-6

CARCINOGENICITY LISTED BY: NTP NO

IARC NO

OSHA NO

ACGIH NO

COMMON NAME : CLAY

CAS NUMBER: 1332-58-7

CARCINOGENICITY LISTED BY: NTP NO

IARC NO

OSHA NO

ACGIH NO

COMMON NAME : CARBON BLACK

SECTION 11: TOXICOLOGICAL INFORMATION

CAS NUMBER: 1333-86-4
CARCINOGENICITY LISTED BY: NTP NO IARC YES 2B OSHA NO ACGIH NO
LD50:> 10.00 GM/KG ORL RAT

COMMON NAME : YELLOW IRON OXIDE
CAS NUMBER: 51274-00-1
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO
LD50:> 10.00 GM/KG ORL RAT

COMMON NAME : ARSENIC
CAS NUMBER: 7440-38-2
CARCINOGENICITY LISTED BY: NTP YES A IARC YES 1 OSHA NO ACGIH YES A1
LD50: 763.00 MG/KG ORL RAT
LD50: 145.00 MG/KG ORL MOU

COMMON NAME : LECITHIN
CAS NUMBER: 8002-43-5
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

SUPPLEMENTAL HEALTH INFORMATION

EXCESSIVE INHALATION OF FUMES MAY LEAD TO METAL FUME FEVER
CHARACTERIZED BY A METALLIC TASTE IN MOUTH, EXCESSIVE
THIRST, COUGHING, WEAKNESS, FATIGUE, MUSCULAR PAIN, NAUSEA,
CHILLS AND FEVER.
OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO LUNGS.

CARCINOGENICITY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS
CLASSIFIED CARBON BLACK AS POSSIBLY CARCINOGENIC TO HUMANS
(GROUP 2B) BASED ON SUFFICIENT EVIDENCE IN ANIMALS AND
INADEQUATE EVIDENCE IN HUMANS.

REPRODUCTIVE EFFECTS

NO REPRODUCTIVE EFFECTS ARE ANTICIPATED

MUTAGENICITY

NO MUTAGENIC EFFECTS ARE ANTICIPATED

TERATOGENICITY

SOME LABORATORY TEST RESULTS HAVE SHOWN ETHYLENE GLYCOL TO
BE AN ANIMAL TERATOGEN.

SECTION 12: ECOLOGICAL INFORMATION

NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS
PRODUCT AS A WHOLE.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
 AVOID DISCHARGE TO NATURAL WATERS.

SECTION 14: TRANSPORT INFORMATION

DOT PAINT ** PROTECT FROM FREEZING **
IMDG NOT AVAILABLE
IATA NOT AVAILABLE
TDG NOT AVAILABLE

SECTION 15: REGULATORY INFORMATION

		SARA 302	SARA 313	CERCLA 302.4	HAZ AIR POLLUTANT	MARINE POLYNT
CAS NUMBER:	107-21-1	NO	YES	YES	YES	NO
COMMON NAME :	ETHYLENE GLYCOL					
CAS NUMBER:	127087-87-0	NO	YES	NO	YES	NO
COMMON NAME :	GLYCOL ETHER					
CAS NUMBER:	1317-34-6	NO	YES	NO	YES	NO
COMMON NAME :	MANGANESE OXIDE					
CAS NUMBER:	7440-38-2	NO	YES	YES	NO	NO
COMMON NAME :	ARSENIC					

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS
PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING)
ON THE TSCA INVENTORY.
THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE

SECTION 15: REGULATORY INFORMATION

**HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS)
AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE
CPR.**

SECTION 16: OTHER INFORMATION

**THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE
AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI
PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS
EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA.
ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS
INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS
MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS
SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE
PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF
YOUR EMPLOYEES AND USERS OF THIS MATERIAL.
COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD
29CFR1910.1200.**